

ABSTRACT OF THE DISCLOSURE

Integrated circuits, assemblies with integrated circuits, display devices and electrical circuits. There are various different aspects and embodiments of these apparatuses described herein. According to one aspect, a display device includes a plurality of

5 display drivers which includes a serial shift register, wherein the display drivers are located in the display area of the display device which is viewable. According to another aspect, an integrated circuit, which has a plurality of functionally symmetric interface pads, includes an instruction decoder which decodes instructions received through at least one of the pads. In another aspect, an integrated circuit (IC) includes

10 a position detector which detects a position of the IC relative to a receptor substrate and provides a signal which is determined by the position; this IC may be used in an assembly which includes the receptor substrate. In another aspect, an IC includes a position detector which detects a position of the IC relative to a receptor substrate and also includes a configurable pad which is configurable, depending upon the position

15 as one of at least two of the following: an input pad, an output pad, or a no-operation pad. According to another aspect, a layout of an IC has a plurality of functionally symmetric interface pads wherein two such pads are configurable pads. According to another aspect, an assembly includes a receptor substrate and an IC attached to the substrate, and the IC includes a first logic circuit which provides a first function, a

20 second logic circuit which provides a second function, and a selector which selects between the two functions such that the IC performs only the selected function. Other aspects and methods are also described.